## IN THE CLAIMS

- 1. (Currently amended) An inkjet cleaning apparatus comprising a circuit holder, a laser for generating a laser beam, and an optics subsystem arranged to focus and scan the laser beam onto a circuit surface at the circuit holder, and a diagnostic subsystem comprising a sensor arranged to sense whether the circuit surface has been cleaned.
- 2. (Original) An apparatus as claimed in claim 1 in which the optics subsystem includes a beam splitter for splitting off a portion of the beam to regulate the laser beam power.
- 3. (Original) An apparatus as claimed in claim 1 in which the optics subsystem includes a scanner arranged to scan the laser beam across a circuit surface.
- 4. (Original) An apparatus as claimed in claim 1 in which the optics subsystem includes a lens system for adjusting laser beam size, shape and incident fluence.
- 5. Cancelled.
- 6. (Currently amended) An apparatus as claimed in claim 5\_1 in which the sensor comprises one or more of an acoustic sensor, a plasma signal sensor, or a surface pattern inspection monitor.

Atty Docket No. 4795-005 Application Serial No. 10/083,832

- 7. (Currently amended) An apparatus as claimed in claim 5\_1 further including an apparatus controller arranged to receive a signal from the sensor and control the cleaning operation accordingly.
- 8. (Original) An apparatus as claimed in claim 1 in which the laser has a pulse duration of nanoseconds scale and a wavelength selected from the visible to the infrared range.
- 9. (Original) An apparatus as claimed in claim 1 in which the circuit holder is arranged to replace a cleaned circuit by a contaminated circuit.
- 10. (Original) An apparatus as claimed in claim 1 further including a contaminant removal mechanism.
- 11. (Original) An apparatus as claimed in claim 10 in which the contaminant removal mechanism comprises one of a vacuum source or a gas stream source.
- 12. (Original) An apparatus as claimed in claim 10 further comprising a transparent protective cover between the circuit holder and the optics system to trap escaped contaminant.

Atty Docket No. 4795-005 Application Serial No. 10/083,832

- 13. (Currently amended) An apparatus as claimed in claim 1 in which the inkjet circuit comprises a flexible circuit for an inkjet printer cartridge one or more inkjet nozzles formed in a flexible circuit substrate.
- 14. (Currently amended) A method of cleaning an inkjet circuit comprising the steps of retaining a circuit to be cleaned in a circuit holder, generating a laser beam from a laser, and-focusing and scanning the laser beam on the circuit surface via an optics subsystem, and detecting when a portion of the circuit surface is cleaned and controlling a galvanometer to scan the beam across a non-cleaned portion of the surface.
- 15. Cancelled.
- 16. (Original) A method as claimed in claim 14 further comprising the step of detecting when a circuit is fully cleaned, and controlling the circuit holder to replace the circuit with a non-cleaned circuit.
- 17. (Currently amended) A method as claimed in claim 14 for cleaning a flexible circuit of an inkjet printer cartridge one or more inkjet nozzles formed in a flexible circuit substrate.
- 18. (New) An inkjet cleaning apparatus comprising a circuit holder, a laser for generating a laser beam, and an optics subsystem arranged to focus and scan the laser

beam onto a circuit surface at the circuit holder, and wherein the circuit holder is arranged to replace a cleaned circuit by a contaminated circuit.

- 19. (New) An apparatus as claimed in claim 18 in which the optics subsystem includes a beam splitter for splitting off a portion of the beam to regulate the laser beam power.
- 20. (New) An apparatus as claimed in claim 18 in which the optics subsystem includes a scanner arranged to scan the laser beam across a circuit surface.
- 21. (New) An apparatus as claimed in claim 18 in which the optics subsystem includes a lens system for adjusting laser beam size, shape and incident fluence.
- 22. (New) An apparatus as claimed in claim 18 further including a diagnostic subsystem comprising a sensor arranged to sense whether the circuit surface has been cleaned.
- 23. (New) An apparatus as claimed in claim 22 in which the sensor comprises one or more of an acoustic sensor, a plasma signal sensor, or a surface pattern inspection monitor.
- 24. (New) An apparatus as claimed in claim 22 further including an apparatus controller arranged to receive a signal from the sensor and control the cleaning operation accordingly.

- 25. (New) An apparatus as claimed in claim 18 in which the laser has a pulse duration of nanoseconds scale and a wavelength selected from the visible to the infrared range.
- 26. (New) An apparatus as claimed in claim 18 further including a contaminant removal mechanism.
- 27. (New) An apparatus as claimed in claim 26 in which the contaminant removal mechanism comprises one of a vacuum source or a gas stream source.
- 28. (New) An apparatus as claimed in claim 26 further comprising a transparent protective cover between the circuit holder and the optics system to trap escaped contaminant.
- 29. (New) An apparatus as claimed in claim 18 in which the inkjet circuit comprises one or more inkjet nozzles formed in a flexible circuit substrate.
- 30. (New) A method of cleaning an inkjet circuit comprising the steps of retaining a circuit to be cleaned in a circuit holder, generating a laser beam from a laser, focusing and scanning the laser beam on the circuit surface via an optics subsystem, detecting when a circuit is fully cleaned, and controlling the circuit holder to replace the circuit with a non-cleaned circuit.

Atty Docket No. 4795-005 Application Serial No. 10/083,832

- 31. (New) A method as claimed in claim 30 further comprising the steps of detecting when a portion of the circuit surface is cleaned and controlling a galvanometer to scan the beam across a non-cleaned portion of the surface.
- 32. (New) A method as claimed in claim 30 for cleaning one or more inkjet nozzles formed in a flexible circuit substrate.